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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/708,145	02/11/2004	Yoshinori OKAJIMA	960637D 2144		
23850	7590 09/08/2004		EXAMINER		
ARMSTRON	NG, KRATZ, QUINTO	COX, CASSANDRA F			
1725 K STRE	ET, NW		ART UNIT	PAPER NUMBER	
SUITE 1000			ARTUNII	TATER NOMBER	
WASHINGTO	ON, DC 20006	2816			
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DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	
		10/708,1	OKAJIMA, YOSHINORI		NORI
Office Action Summary		Examine	r	Art Unit	
		Cassandi	a Cox	2816	N.
	The MAILING DATE of this communi	cation appears on th	e cover sheet with the c	orrespondence ad	dress
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNITY OF THI	CATION. of 37 CFR 1.136(a). In no exunication. o) days, a reply within the statutory period will apply and wwill, by statute, cause the app	vent, however, may a reply be time tutory minimum of thirty (30) days vill expire SIX (6) MONTHS from plication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	
Status					
·	Responsive to communication(s) file This action is FINAL . 2 Since this application is in condition to closed in accordance with the practic	b)⊠ This action is r for allowance except	non-final. for formal matters, pro		e merits is
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-28 is/are pending in the a 4a) Of the above claim(s) 17-28 is/are Claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrice.	e withdrawn from co			
Applicat	ion Papers				
10)⊠	The specification is objected to by the The drawing(s) filed on 11 February 2 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	2004 is/are: a)⊠ action to the drawing(s) the correction is require	be held in abeyance. See red if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF	FR 1.121(d).
Priority (ınder 35 U.S.C. § 119				
12)⊠ a)i	Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 2. Certified copies of the priority of 3. Copies of the certified copies of application from the Internation See the attached detailed Office action	documents have bee documents have bee of the priority docum nal Bureau (PCT Ru	en received. en received in Application ents have been receive le 17.2(a)).	on No. <u>08/681,978</u> ed in this National	
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (Pimation Disclosure Statement(s) (PTO-1449 or bit No(s)/Mail Date 02/11/04.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate)-152)

DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities:

In line 6 of claim 1 after the word "signal" replace the variable "a" with the symbol

--α--.

In line 6 of claim 1 after the "(" replace the variable "a" with the symbol -- α --. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 11, and 14 are indefinite because it is not clear to the examiner how the time difference expander is connected to the rest of the circuit. Does the time difference expander receive the first signal and the second signal or does it receive the delayed first and second signal? It appears to the examiner from the drawings and the specification that the time difference expander receives a first signal that has been delayed by the first and second circuit (for example as shown in Figure 5). There does not appear to be a second signal shown in the figure and therefore, it is not clear to the examiner how the time difference expander would expand a time difference between a changeover point of a first signal and a changeover point of a second signal a particular

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number of times to provide an output signal having a given time difference with respect to a control signal. There is also no control signal shown in the Figure. In addition applicant discloses in the specification that figures 11-19 show different embodiments of the time difference expander (3) shown in previous Figures. It is not clear to the examiner how the time difference expander shown in Figures 11-19 correlates to the time difference expander (3) shown in the previous Figures. For example the time difference expander shown in Figure 4-10 shows a circuit having a single input and a single output. This does not correspond to Figures 11-19 wherein the time difference expander has multiple inputs and outputs. Correction or clarification is required.

Claims 2-10 and 15-16 are also rejected due to the limitations of the base claims and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 571-272-1741. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM and on alternate Fridays from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CC

September 2, 2004

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800